

Installation of Valens input interface

Prerequisites and Download

The Valens input interface code is now available in sps/Valens. The interface is implemented in HTML/Javascript and uses PHP on the server. In order for the interface to perform correctly you must install the Apache webserver and PHP. For details on the apache web server please visit <http://httpd.apache.org/>. For details on PHP please visit <http://www.php.net/>. We recommend using apache version 2.0 or greater and PHP version 5.0 or greater.

Set up Valens in the Apache DocumentRoot path

In order for the webserver to find Valens, the Valens directory must be in the DocumentRoot path. There are two options for doing this:

1. Move the Valens directory to the DocumentRoot path that is specified in the apache httpd.conf file. The default location is often /var/www.
2. Change the DocumentRoot in the apache httpd.conf file to point to the sps directory.

Once the Valens directory is located in the path of the DocumentRoot, you can start up Valens by going to <http://serverName/Valens>. If you are running apache on your local computer then you can launch Valens by going to <http://localhost/Valens>.

Configuring Valens

Inside of the Valens directory, there are 2 files which contain the default configurations for running GenoMS+CSPS. The default parameters are found in Valens/default.sps.params. In this file you must specify the following information:

1. EXE_DIR – Give the absolute path to the sps/bin directory.
2. GRID_* - Give the parameters for running GenoMS+CSPS on you grid. If you do not plan to run using the grid, then remove all lines starting with GRID.

The other parameters are recommended for most uses of GenoMS+CSPS, and should not be changed.

In the DPUtil.js file, two more parameters must be set.

1. var browseRoot = “XXX” - This tells Valens the root directory for any spectra that you will be using in a GenoMS+CSPS job. It is important that the user *www-data* have read permissions for the directory hierarchy and spectrum files.
2. var dataRoot = “XXX” - This tells Valens the root directory for all GenoMS+CSPS projects that will be created. It is important that the user *www-data* have write permissions for this directory.

Running Valens

You have now successfully installed and configured Valens. Once you have created an experiment and launched a job, a popup window will appear with the status of the job. Once the job is completed, you can browse the project results in *dataRoot/your project name/report*.